NAME
mbtowc - convert a character to a wide-character code

LIBRARY
Standard C Library (libc, -lc)

SYNOPSIS
#include <stdlib.h>

int
mbtowc(*wchar_t * restrict wcharp*, *const char * restrict mbchar*, *size_t nbytes*);

DESCRIPTION
The **mbtowc**() function converts a multibyte character *mbchar* into a wide character according to the current conversion state, and stores the result in the object pointed to by *wcharp*. Up to *nbytes* bytes are examined.

A call with a null *mbchar* pointer returns nonzero if the current encoding requires shift states, zero otherwise; if shift states are required, the shift state is reset to the initial state.

RETURN VALUES
If *mbchar* is NULL, the **mbtowc**() function returns nonzero if shift states are supported, zero otherwise.

Otherwise, if *mbchar* is not a null pointer, **mbtowc**() either returns 0 if *mbchar* represents the null wide character, or returns the number of bytes processed in *mbchar*, or returns -1 if no multibyte character could be recognized or converted. In this case, **mbtowc**()'s internal conversion state is undefined.

ERRORS
The **mbtowc**() function will fail if:

[EILSEQ]   An invalid multibyte sequence was detected.

[EINVAL]   The internal conversion state is invalid.

SEE ALSO
btowc(3), mblen(3), mbrtowc(3), mbstowcs(3), multibyte(3), wctomb(3)

STANDARDS
The **mbtowc**() function conforms to ISO/IEC 9899:1999 ("ISO C99").